



**SODIUM HYPOCHLORITE SOLUTION  
MATERIAL SAFETY DATA SHEET**

Trade Name: **BORCHLOR 5**

12.5% by weight

15% by volume

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**General Information**

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Item Name: SODIUM HYPOCHLORITE SOLUTION 15%  
Company's Name: Borden & Remington  
Company's Street: 106 Ferry St.  
Company's City: Fall River  
Company's State: Massachusetts  
Company's Country: US  
Company's Zip Code: 02722  
Company's Emerg Ph #: 508-675-0096 Facility 800-424-9300(CHEMTREC)  
Company's Info Ph #: 508-675-0096  
Date MSDS Prepared: July 1996  
Safety Data Review Date: January 2, 1998  
Supply Item Manager: J. Carey  
Spec Type, Grade, Class: GRADE B  
Hazard Characteristic Code:  
Unit Of Issue: gallon/pounds  
Unit Of Issue Container Qty: 30, 55, 260, 300 gallons/ 300, 550, 2600, 3000 pounds  
Type Of Container: HDPE drums and Intermediate Bulk Containers

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**Ingredients/Identity Information**

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Proprietary: NO  
Ingredient: SODIUM HYPOCHLORITE (SARA III)  
Ingredient Sequence Number: 01  
Percent: 15 by volume 12.5 by weight  
NIOSH (RTECS) Number: NH3486300  
CAS Number: 7681-52-9  
OSHA PEL: 1 ppm  
ACGIH TLV: 1 ppm  
ACUTE ORAL 5 G/KG

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Proprietary: NO

Ingredient: SODIUM CHLORIDE  
Ingredient Sequence Number: 02  
Percent: 11 BY VOLUME  
NIOSH (RTECS) Number: VZ4725000  
CAS Number: 7647-14-5  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

Proprietary: NO  
Ingredient: SODIUM HYDROXIDE (SARA III)  
Ingredient Sequence Number: 03  
Percent: 1 by volume  
NIOSH (RTECS) Number: WB4900000  
CAS Number: 1310-73-2  
OSHA PEL: 2 MG/M3  
ACGIH TLV: C 2 MG/M3; 9293

Proprietary: NO  
Ingredient: WATER  
Ingredient Sequence Number: 04  
Percent: 73 by volume  
NIOSH (RTECS) Number: ZC0110000  
CAS Number: 7732-18-5  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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#### Physical/Chemical Characteristics

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Appearance And Odor: GREENISH-YELLOW LIQUID. CHLORINE-LIKE ODOR.  
Boiling Point: 220 F  
Specific Gravity: 1.26  
Decomposition Temperature: AS HEATED  
Evaporation Rate And Ref: NO DATA  
Solubility In Water: 100%  
pH: 12.5  
Autoignition Temperature: NONE

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#### Fire and Explosion Hazard Data

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Flash Point: NOT APPLICABLE  
Extinguishing Media: NOT APPLICABLE  
Special Fire Fighting Proc: USE WATER TO COOL CONTAINERS EXPOSED TO FIRE. ON SMALL FIRE, USE DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY. ON LARGE FIRES, USE WATER IN FLOODING AMOUNTS FOG.

Unusual Fire And Expl Hazrds: IN CASE OF FIRE, HAZARDOUS CONCENTRATIONS OF CHLORINE MAY BE FORMED.

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#### Reactivity Data

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Stability: YES

Cond To Avoid (Stability): HIGH HEAT, SUNLIGHT AND ULTRAVIOLET LIGHT.

Materials To Avoid: IRON, COPPER, ACIDS, AMMONIUM COMPOUNDS, ORGANICS, OTHER OXIDIZERS.

Hazardous Decomp Products: CHLORINE GAS

Hazardous Polymerization Occur: NO

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#### Health Hazard Data

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LD50-LC50 Mixture: ORAL LD50 (RAT) IS 5 G/KG

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: INHALATION-IRRITATING TO THE NOSE, MOUTH, THROAT & LUNGS. EYE-SEVERE IRRITATION, IMPAIRED VISION & CORNEAL DAMAGE. SKIN-SEVERE IRRITATION, DESTRUCTION OF THE DERMIS WITH IMPAIRMENT OF THE SKIN. INGESTION-IRRITATION CAN OCCUR TO THE ENTIRE GASTROINTESTINAL TRACT, INCLUDING THE STOMACH AND INTESTINES.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: THIS PRODUCT HAS BEEN SHOWN NOT TO BE CARCINOGENIC. IT IS NOT INCLUDED AS A CARCINOGEN BY IARC, NTP, OSAH OR EPA.

Signs/Symptoms Of Overexp: INHALATION-BURNS TO THE RESPIRATORY TRACT, SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAIN AND IMPAIRED LUNG FUNCTION. EYE-SEVERE BURNS. SKIN-SEVERE BURNS, REDNESS, SWELLING & SCAB FORMATION. INGESTION-NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING AND/OR TISSUE ULCERTAION.

Med Cond Aggravated By Exp: ASTHMA AND RESPIRATORY AND CARDIOVASCULAR DISEASE.

Emergency/First Aid Proc:

EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.  
SKIN-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.  
REMOVE SOILED CLOTHING.  
INGESTION-IMMEDIATELY DRINK LARGE AMOUNTS OF WATER. DO NOT  
INDUCE VOMITING. CALL PHYSICIAN. DO NOT GIVE ANYTHING IF PERSON  
IS UNCONSCIOUS /HAVEING CONVULSIONS.  
INHALATION-STOP WORK& MOVE TO FRESH AIR. IF BREATHING IS HARD,  
GIVE OXYGEN. CALL PHYSICIAN.

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#### Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: COMPATIBLE ABSORBENTS: non-flammable SAND,  
CLAY, COMMERCIAL ABSORBENT. RESPONSE TO THIS MATERIAL REQUIRES  
THE USE OF SELF-CONTAINED BREATHING APPARATUS. ADDITIONAL  
PROTECTIVE CLOTHING MUST BE WORN TO PREVENT PERSONAL  
CONTACT WITH THIS MATERIAL.

Neutralizing Agent: bisulfites or ferrous salts; maintain on alkaline side and absorb with  
non-organic as specified

Waste Disposal Method: AS A NONHAZARDOUS LIQUID WASTE, IT SHOULD BE  
DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL  
REGULATIONS BY A LICENSED TSDF IN A WASTEWATER TREATMENT  
SYSTEM. CARE MUST BE TAKEN TO PREVENT ENVIRONMETAL  
CONTAMINATION FROM THE USE OF THIS MATERIAL.

Precautions-Handling/Storing: STORE IN A COOL, DRY WELL-VENTILATED  
AREA. AVOID HIGH TEMPERATURES & EXPOSURE TO & DIRECT SUNLIGHT.  
DO NOT STORE AT TEMPERATURES BELOW: 15-21 DEG. F.

Other Precautions: STORE IN THE DARK AT THE LOWEST POSSIBLE  
TEMPERATURE, BUT KEEP FROM FREEZING.

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN OR  
EYES, UPON CONTACT WITH SKIN OR EYES, WASH OFF. WITH WATER.

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#### Control Measures

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Respiratory Protection: RESPIRATORY PROTECTION NOT NORMALLY NEEDED  
SINCE THE VOLATILITY AND TOXICITY ARE LOW. IF VAPORS, MISTS, OR  
AEROSOLS ARE GENERATED, WEAR A NIOSH/MSHA APPROVED  
RESPIRATOR.

Ventilation: LOCAL EXHAUST VENTILATION IS RECOMMENDED IF VAPORS,  
MISTS OR AEROSOLS ARE GENERATED. OTHERWISE, USE GENERAL  
EXHAUST VENT

Protective Gloves: IMPERMEABLE GLOVES.

Eye Protection: CHEMICAL GOGGLESUSE CHEMICAL SAFETY GOG

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER,  
IMPERVIOUS CLOTHING, LONG SLEEVED SHIRT, TROUSERS, RUBBER  
APRON.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Suppl. Safety & Health Data: OTHER: DECOMPOSITION WILL RESULT FROM  
CONTACT  
WITH IRON OR COPPER.

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#### Transportation Data

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Trans Data Review Date: January 2, 1998

DOT PSN Code: HNV

DOT Proper Shipping Name: HYPOCHLORITE SOLUTION 15%

DOT Class: 8

DOT ID Number: UN1791

DOT Pack Group: III

DOT Label: CORROSIVE

IMO PSN Code: IKL

IMO Proper Shipping Name: HYPOCHLORITE SOLUTION 15%

IMO Regulations Page Number: 8186

IMO UN Number: 1791

IMO UN Class: 8

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#### Label Data

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Label Required: YES

Technical Review Date: January 2, 1998

Common Name: SODIUM HYPOCHLORITE 15%

Chronic Hazard: YES

Signal Word: DANGER

Acute Health Hazard-Moderate: X

Contact Hazard-Moderate: X

Fire Hazard-None: X

Reactivity Hazard-None: X

Special Hazard Precautions: SPILL: COMPATIBLE ABSORBENTS: SAND, CLAY,  
COMMERCIAL ABSORBENT. RESPONSE TO THIS MATERIAL REQUIRES THE  
USE OF SELF-CONTAINED BREATHING APPARATUS. ADDITIONAL  
PROTECTIVE CLOTHING MUST BE WORN TO PREVENT PERSONAL  
CONTACT WITH THIS MATERIAL.

#### FIRST AID:

EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.  
SKIN-IMMEDIATELY FLUSH WITH WATER FOR 15 MIN. CALL PHYSICIAN.  
REMOVE SOILED CLOTHING.

01/20/02 11:01 AM 000072070 BORDEN REMINGTON 0000

INGESTION-IMMEDIATELY DRINK LARGE AMOUNTS OF WATER. DO NOT  
INDUCE VOMITING. CALL PHYSICIAN. DO NOT GIVE ANYTHING IF PERSON  
IS UNCONSCIOUS AND OR HAVING CONVULSIONS.

INHALATION-STOP WORK & MOVE TO FRESH AIR. IF BREATHING IS  
HARD, GIVE OXYGEN. CALL PHYSICIAN.

Protect Eye: X

Protect Skin: X

Label Name: Borden & Remington

Label Street: 106 Ferry St.

Label City: Fall River

Label State: MA

Label Zip Code: 02722

Label Country: US

Label Emergency Number: 800-424-9300 CHEMTREC